

## EAST Search History

| Ref # | Hits  | Search Query                                                                                   | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|-------|------------------------------------------------------------------------------------------------|-----------------|------------------|---------|------------------|
| L1    | 2877  | shift\$3 near4 (first or "1s") near7 (bit or byte) near5 (second or "2nd") near3 (bit or byte) | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:00 |
| L2    | 10764 | (multi) near4 tone                                                                             | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 10:58 |
| L3    | 22    | 1 and 2                                                                                        | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 10:59 |
| L4    | 2559  | shift\$3 adj3 (bit or byte) near5 (second or "2nd") near3 (bit or byte)                        | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:01 |
| L5    | 9     | 2 and 4                                                                                        | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:16 |
| L6    | 0     | (amplif\$7) adj3 multi adj3 tone near4 equal adj4 gain                                         | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:20 |
| L8    | 1     | (amplif\$7) near5 multi adj3 tone with equal\$2 adj4 gain near7 compar\$5                      | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:21 |
| L9    | 1     | (amplif\$7) near8 multi adj3 tone with equal\$2 adj4 gain near7 compar\$5                      | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:22 |
| L10   | 1     | (amplif\$7) near8 multi adj3 tone with equal\$2 adj4 gain with compar\$5                       | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:22 |
| L11   | 20    | (amplif\$7) near5 equal\$2 adj4 gain with compar\$5                                            | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:34 |
| L12   | 1     | 11 and tone                                                                                    | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:22 |
| L13   | 1031  | 375/345.ccls.                                                                                  | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:34 |
| L15   | 117   | amplif\$7 with multi adj3 tone                                                                 | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:35 |
| L16   | 1     | 13 and 15                                                                                      | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 11:50 |
| L17   | 31    | di adj bit adj3 encod\$3                                                                       | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 12:04 |
| L18   | 65    | (tone) near4 (great\$3 or larg\$3) near5 state                                                 | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 12:05 |
| L19   | 1     | 17 and 18                                                                                      | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 12:05 |
| L20   | 38    | FRANCA-NETO-LUIZ-M.in.                                                                         | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 14:45 |
| L21   | 8232  | 375/238,242,253,259,260,261,279,295,308,345.ccls.                                              | US-PGPUB; USPAT | OR               | ON      | 2008/01/18 14:50 |

## EAST Search History

|     |      |                                                                                                                                      |                    |    |    |                  |
|-----|------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|----|----|------------------|
| L22 | 8    | 15 and 21                                                                                                                            | US-PGPUB;<br>USPAT | OR | ON | 2008/01/18 14:49 |
| L23 | 2943 | 370/310,343,344,464,498,521,525,<br>526.ccls.                                                                                        | US-PGPUB;<br>USPAT | OR | ON | 2008/01/18 14:53 |
| S1  | 2    | multi adj2 en\$1cod\$3 same tone<br>adj3 generator                                                                                   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/18 10:57 |
| S2  | 4    | (multi or plural\$3) near2 (bit or<br>byte) near5 encod\$3 same (tone<br>near4 generat\$3)                                           | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:52 |
| S3  | 1    | "20050223306"                                                                                                                        | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:45 |
| S4  | 2820 | (multi or plural\$3) near2 (bit or<br>byte) near5 encod\$3                                                                           | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:52 |
| S5  | 10   | (tone) near5 generat\$3 near6<br>(multi\$3 or plural\$3 or cascad\$3)<br>near5 ((voltage adj control\$4 adj<br>oscillator) or "vco") | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:56 |
| S6  | 11   | (tone) near5 generat\$3 with(multi\$3<br>or plural\$3 or cascad\$3) near5<br>((voltage adj control\$4 adj<br>oscillator) or "vco")   | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:57 |
| S7  | 18   | (tone) near5 generat\$3 same<br>(multi\$3 or plural\$3 or cascad\$3)<br>near5 ((voltage adj control\$4 adj<br>oscillator) or "vco")  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:57 |
| S8  | 22   | (tone) near5 generat\$3 same<br>(multi\$3 or plural\$3 or cascad\$3)<br>near8 ((voltage adj control\$4 adj<br>oscillator) or "vco")  | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:57 |
| S10 | 44   | (tone) same (multi\$3 or plural\$3 or<br>cascad\$3) near8 ((voltage adj<br>control\$4 adj oscillator) or "vco")                      | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 10:58 |
| S13 | 3    | encod\$3 same (tone) same (multi\$3<br>or plural\$3 or cascad\$3) same<br>((voltage adj control\$4 adj<br>oscillator) or "vco")      | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 11:02 |
| S14 | 1    | "20060120477"                                                                                                                        | US-PGPUB;<br>USPAT | OR | ON | 2008/01/02 11:02 |
| S15 | 1    | ((ultra adj wide adj band) or "uwb")<br>near5 (transceiver or modem) same<br>multi adj3 tone near4 (transmi\$5 or<br>rece\$5)        | US-PGPUB;<br>USPAT | OR | ON | 2008/01/08 11:21 |
| S16 | 1    | ((ultra adj wide adj band) or "uwb")<br>near5 (transceiver or modem) same<br>multi adj3 tone near4 (transmi\$5<br>same rece\$5)      | US-PGPUB;<br>USPAT | OR | ON | 2008/01/08 11:21 |

## EAST Search History

|     |       |                                                                                        |                           |    |    |                  |
|-----|-------|----------------------------------------------------------------------------------------|---------------------------|----|----|------------------|
| S17 | 1     | ((ultra adj wide adj band) or "uwb") near5 (transceiver or modem) same multi adj3 tone | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:21 |
| S18 | 8     | ((ultra adj wide adj band) or "uwb") near5 (transceiver or modem) and multi adj3 tone  | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:52 |
| S19 | 21    | ((ultra adj wide adj band) or "uwb") same (transceiver or modem) and multi adj3 tone   | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:51 |
| S20 | 13    | S19 not S18                                                                            | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:48 |
| S21 | 114   | (multi\$3 or plural\$3) near5 (bit or byte) near4 encod\$3 same tone                   | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:58 |
| S22 | 5     | S21 and ((ultra adj wide adj band) or "uwb")                                           | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:59 |
| S23 | 28580 | (tone near4 generat\$3)                                                                | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:59 |
| S24 | 2059  | encod\$3 same (tone near4 generat\$3)                                                  | US-PGPUB; USPAT           | OR | ON | 2008/01/08 12:03 |
| S25 | 9     | S24 and ((ultra adj wide adj band) or "uwb")                                           | US-PGPUB; USPAT           | OR | ON | 2008/01/08 11:59 |
| S26 | 202   | S24 and (375/???ccls.)                                                                 | US-PGPUB; USPAT           | OR | ON | 2008/01/08 12:03 |
| S27 | 202   | S26 not S19                                                                            | US-PGPUB; USPAT           | OR | ON | 2008/01/08 12:04 |
| S28 | 198   | S27 not S25                                                                            | US-PGPUB; USPAT           | OR | ON | 2008/01/08 12:11 |
| S29 | 1     | S28 and ((plural\$3 or multi\$3 or cascad\$3) near5 phase near2 detect\$3)             | US-PGPUB; USPAT           | OR | ON | 2008/01/08 14:53 |
| S30 | 1     | "11481997"                                                                             | US-PGPUB; USPAT           | OR | ON | 2008/01/08 14:54 |
| S31 | 1     | "20050213678"                                                                          | US-PGPUB; USPAT           | OR | ON | 2008/01/08 15:03 |
| S32 | 29    | band adj width near6 ("20" or twenty) near5 percent                                    | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 10:19 |
| S33 | 897   | band adj width near8 ("20" or twenty)                                                  | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 10:23 |
| S34 | 55    | S33 and tone                                                                           | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 10:20 |
| S35 | 7     | S34 and encoder                                                                        | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 10:19 |

## EAST Search History

|     |        |                                                                                                       |                                 |    |    |                  |
|-----|--------|-------------------------------------------------------------------------------------------------------|---------------------------------|----|----|------------------|
| S36 | 48     | S34 not S35                                                                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:22 |
| S37 | 2676   | (multi\$3 or plural\$3) near5 tone<br>near6 transm\$6                                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:23 |
| S38 | 1391   | (multi\$3 or plural\$3) near5 tone<br>near6 transm\$6 same rece\$6                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:24 |
| S39 | 32     | band adj width near8 ("20" or<br>twenty) near7 (percent\$3 or "%")                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:24 |
| S40 | 0      | S38 and S39                                                                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:24 |
| S41 | 0      | S39 and tone                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:24 |
| S42 | 350    | S38 and encoder                                                                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:24 |
| S43 | 273254 | ("20" or twenty) near7 (percent\$3<br>or "%")                                                         | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:24 |
| S44 | 5      | S42 and S43                                                                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:28 |
| S45 | 57     | (plural\$3 or multi\$3 or cascad\$3)<br>with phasor near5 (detect\$3 or<br>estimat\$3 or calculat\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:32 |
| S46 | 0      | (comput\$6 or estimat\$3 or<br>measur\$4 or determin\$5) near8<br>orthogonal\$3 same thershold        | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 12:40 |
| S47 | 2046   | (comput\$6 or estimat\$3 or<br>measur\$4 or determin\$5) near8<br>orthogonal\$3 near5 component       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:31 |
| S48 | 2      | S45 and S47                                                                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:31 |
| S49 | 2636   | (comput\$6 or estimat\$3 or<br>measur\$4 or determin\$5) with<br>orthogonal\$3 near5 component        | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:33 |
| S50 | 2      | S45 and S49                                                                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:32 |

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|     |      |                                                                                                                              |                                 |    |    |                  |
|-----|------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----|----|------------------|
| S51 | 364  | (plural\$3 or multi\$3 or cascad\$3) with phasor                                                                             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:37 |
| S52 | 2    | S49 and S51                                                                                                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:32 |
| S53 | 3785 | (comput\$6 or estimat\$3 or measur\$4 or determin\$5) with (orthogonal\$3) with (component or (sine with cosine))            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:34 |
| S54 | 2    | S51 and S53                                                                                                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:33 |
| S55 | 6987 | (comput\$6 or estimat\$3 or measur\$4 or determin\$5) same(orthogonal\$3) with (component or (sine with cosine))             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:37 |
| S56 | 8    | S51 and S55                                                                                                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:34 |
| S57 | 3    | (detect\$3 or determin\$6 or estimat\$3 or calculat\$3) near5 tone near8 phasor near5 detect\$3                              | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:39 |
| S58 | 1    | (detect\$3 or determin\$6 or estimat\$3 or calculat\$3) near5 tone with (plural\$3 or multi\$3) near8 phasor near5 detect\$3 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:40 |
| S59 | 1    | (detect\$3 or determin\$6 or estimat\$3 or calculat\$3) near5 tone with (plural\$3 or multi\$3) near8 phasor                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:40 |
| S60 | 1    | (detect\$3 or determin\$6 or estimat\$3 or calculat\$3) near5 tone same (plural\$3 or multi\$3) near8 phasor                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:40 |
| S61 | 1    | (detect\$3 or determin\$6 or estimat\$3 or calculat\$3) near5 tone same (plural\$3 or multi\$3 or cascad\$3) near8 phasor    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:41 |
| S62 | 1    | (detect\$3 or determin\$6 or estimat\$3 or calculat\$3) near9 tone same (plural\$3 or multi\$3 or cascad\$3) near8 phasor    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:41 |
| S63 | 5    | (detect\$3 or determin\$6 or estimat\$3 or calculat\$3) near9 tone same (plural\$3 or multi\$3 or cascad\$3) same phasor     | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:42 |

## EAST Search History

|     |      |                                                                                                                                             |                                 |    |    |                  |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----|----|------------------|
| S64 | 17   | tone same (plural\$3 or multi\$3 or cascaded\$3) same phasor                                                                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:43 |
| S65 | 7    | tone same (plural\$3 or multi\$3 or cascaded\$3) near7 phasor                                                                               | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:43 |
| S66 | 6    | S65 not S63                                                                                                                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:46 |
| S67 | 198  | (phasor) near6 detect\$3                                                                                                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:46 |
| S68 | 15   | (multi\$3 or plural\$3 or cascaded\$3) near8 (phasor) near6 detect\$3                                                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:55 |
| S69 | 4    | S68 and orthogonal                                                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:46 |
| S70 | 2    | (multi\$3 or plural\$3 or cascaded\$3) near8 (phasor) near6 measur\$4 with (orthogonal or ("I" same "q"))                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:56 |
| S71 | 2    | (multi\$3 or plural\$3 or cascaded\$3) near8 (phasor) near6 measur\$4 with (orthogonal or ("I" or (in adj phase)) same ("q" or quadrature)) | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:57 |
| S72 | 3    | (multi\$3 or plural\$3 or cascaded\$3) near8 (phasor) same measur\$4 with (orthogonal or ("I" or (in adj phase)) same ("q" or quadrature))  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:58 |
| S73 | 12   | (multi\$3 or plural\$3 or cascaded\$3) near8 (phasor) with (orthogonal or ("I" or (in adj phase)) same ("q" or quadrature))                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 11:04 |
| S74 | 1    | S73 and tone                                                                                                                                | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 10:59 |
| S75 | 1761 | (multi or plural\$3) near5 tone near4 generator                                                                                             | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 11:02 |
| S76 | 685  | ("uwb" or (ultra adj wide adj band)) with (transceiver or modem)                                                                            | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 11:03 |
| S77 | 3    | S75 and S76                                                                                                                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2008/01/14 11:03 |

## EAST Search History

|     |      |                                                                                                                         |                           |    |    |                  |
|-----|------|-------------------------------------------------------------------------------------------------------------------------|---------------------------|----|----|------------------|
| S78 | 35   | (multi\$3 or plural\$3 or casc\$3) near8 (phasor) same (orthogonal or ("1" or (in adj phase)) same ("q" or quadrature)) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 11:05 |
| S79 | 1    | S75 and S78                                                                                                             | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 11:04 |
| S80 | 304  | (multi\$3 or plural\$3 or casc\$3) near8 (phasor)                                                                       | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 11:05 |
| S81 | 1    | S75 and S80                                                                                                             | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 11:07 |
| S82 | 1    | "20030202537"                                                                                                           | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2008/01/14 12:47 |
| S83 | 0    | phasor near5 detect\$3 near5 threshold                                                                                  | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:03 |
| S84 | 29   | phasor near5 threshold                                                                                                  | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:13 |
| S85 | 5    | S84 and tone                                                                                                            | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:06 |
| S86 | 20   | "5636247"                                                                                                               | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:06 |
| S87 | 0    | phasor near5 orthogonal near8 threshold                                                                                 | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:13 |
| S88 | 2    | phasor near7 orthogonal with threshold                                                                                  | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:13 |
| S89 | 1    | "20030099299"                                                                                                           | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:54 |
| S90 | 6    | phasor near6 quadrature near3 detector                                                                                  | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:56 |
| S91 | 14   | phasor same quadrature near3 detector                                                                                   | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:57 |
| S92 | 8    | S91 not S90                                                                                                             | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:56 |
| S93 | 1424 | quadrature adj detector                                                                                                 | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:58 |
| S94 | 29   | S93 and phasor                                                                                                          | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:58 |
| S95 | 24   | S94 not S91                                                                                                             | US-PGPUB; USPAT           | OR | ON | 2008/01/14 15:58 |

## EAST Search History

|      |     |                                                                                                                                                   |                            |    |    |                  |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----|----|------------------|
| S96  | 1   | amplifier same ("agc" or (automatic adj gain adj control\$4)) same equal\$2 near4 gain near6 (multip\$3 or plural\$3) near5 (tone or frequenc\$3) | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:38 |
| S97  | 1   | amplifier same ("agc" or (automatic adj gain adj control\$4)) same equal\$2 near4 gain with (multip\$3 or plural\$3) near5 (tone or frequenc\$3)  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:39 |
| S98  | 235 | amplifier same ("agc" or (automatic adj gain adj control\$4)) same equal\$2 near4 gain                                                            | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:43 |
| S99  | 21  | S98 and tone                                                                                                                                      | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:39 |
| S100 | 8   | amplifier same averag\$3 with ("agc" or (automatic adj gain adj control\$4)) same equal\$2 near4 gain                                             | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:49 |
| S101 | 1   | omnidirection\$3 near4 antenna same distribution same tone                                                                                        | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:48 |
| S102 | 2   | omnidirection\$3 near4 antenna same distribut\$3 same tone                                                                                        | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:49 |
| S103 | 248 | omnidirection\$3 near4 antenna same distribut\$3                                                                                                  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 17:33 |
| S104 | 646 | amplifier same averag\$3 with ("agc" or (automatic adj gain adj control\$4))                                                                      | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:49 |
| S105 | 1   | S103 and S104                                                                                                                                     | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:49 |
| S106 | 2   | omnidirection\$3 near4 antenna same distribut\$3 near4 module                                                                                     | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 16:50 |
| S107 | 1   | "20050185606"                                                                                                                                     | US-PGPUB;<br>USPAT         | OR | ON | 2008/01/14 17:32 |
| S108 | 2   | omnidirection\$3 near4 antenna same multi adj3 tone                                                                                               | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 17:34 |
| S109 | 2   | omnidirection\$3 with antenna same multi adj3 tone                                                                                                | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 17:34 |



## EAST Search History

|          |   |                                                                          |                            |    |    |                  |
|----------|---|--------------------------------------------------------------------------|----------------------------|----|----|------------------|
| S11<br>0 | 3 | omnidirection\$3 with antenna same<br>(multi\$3 or plural\$3) adj3 tone  | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 17:35 |
| S11<br>1 | 4 | omnidirection\$3 with antenna same<br>(multi\$3 or plural\$3) near5 tone | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2008/01/14 17:36 |
| S11<br>2 | 4 | "6430228"                                                                | US-PGPUB;<br>USPAT         | OR | ON | 2008/01/14 18:34 |
| S11<br>3 | 2 | "20040091060"                                                            | US-PGPUB;<br>USPAT         | OR | ON | 2008/01/14 18:34 |
| S11<br>4 | 6 | "5453720"                                                                | US-PGPUB;<br>USPAT         | OR | ON | 2008/01/14 18:34 |